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Jameco Part Number 134332

EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDLE-038-081 REV.: 3

5.0mm Round Type LED Lamps

PART NO. : 383-2UBC/H2 ECN: Page: 1/4

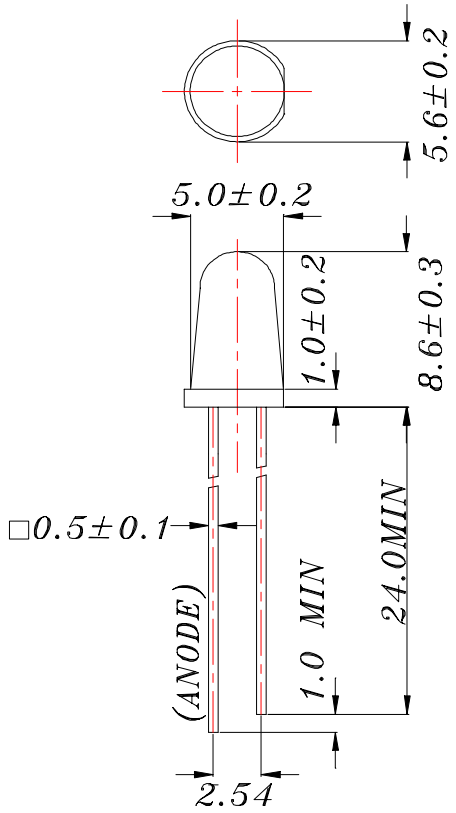
■ Features :

- Choice of various viewing angles
- Available on tape and reel.
- Reliable and robust

■ Descriptions :

- The series is specially designed for applications requiring higher brightness
- The led lamps are available with different colors, intensities,

■ Package Dimensions:



■ Applications :

- TV set
- Monitor
- Telephone
- Computer

■ Notes :

1. All dimensions are in millimeters.
2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
3. Tolerances unless Dimension ±0.25mm.

PART NO.	Chip		Lens Color
	Material	Emitted Color	
383-2UBC/H2	GaN/SiC	Blue	Water Clear

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5.0mm Round Type LED Lamps

PART NO. : 383-2UBC/H2 ECN : Page: 2/4

■ Absolute Maximum Ratings at Ta = 25℃

Parameter	Symbol	Rating	Unit
Forward Current	I_F	30	mA
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
Soldering Temperature	Tsol	260 ± 5	℃
Electrostatic Discharge	ESD	1000	V
Power Dissipation	Pd	140	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	I_F(Peak)	70	mA
Reverse Voltage	V_R	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	250.0	350.0	／	mcd	I_F= 20 mA
Viewing Angle	2θ 1/2	／	25	／	deg	I_F= 20 mA
Peak Wavelength	λ p	／	428	／	nm	I_F= 20 mA
Dominant Wavelength	λ d	／	466	／	nm	I_F= 20 mA
Spectrum Radiation Bandwidth	△ λ	／	65	／	nm	I_F= 20 mA
Forward Voltage	V_F	／	3.8	4.5	V	I_F= 20 mA
Reverse Current	I_R	／	／	50	μA	V_R= 5 V

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383-2UBC/H2

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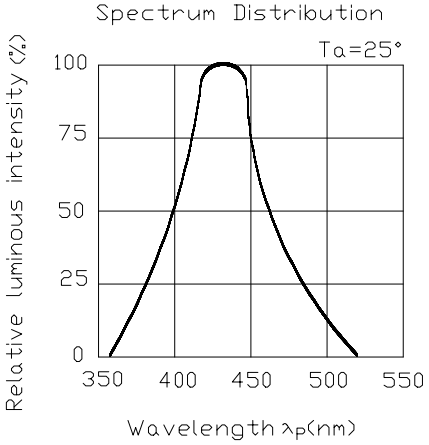
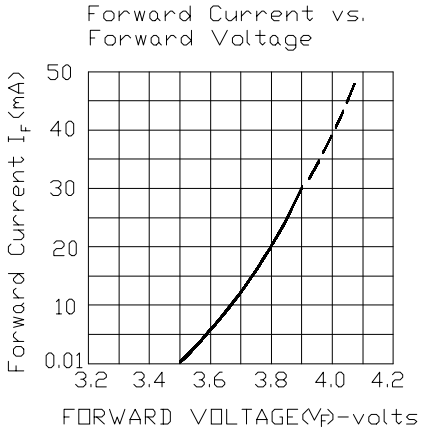
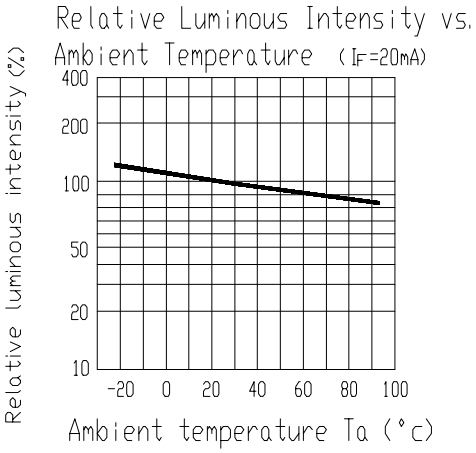
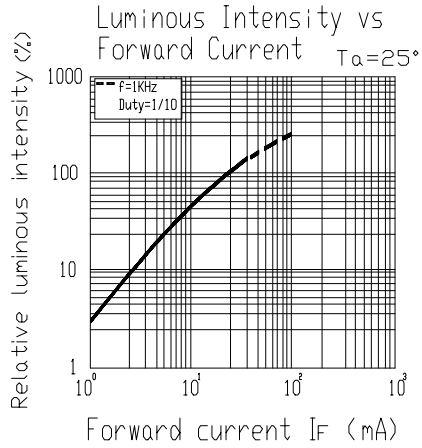
■ Typical Electro-Optical Characteristic Curves:

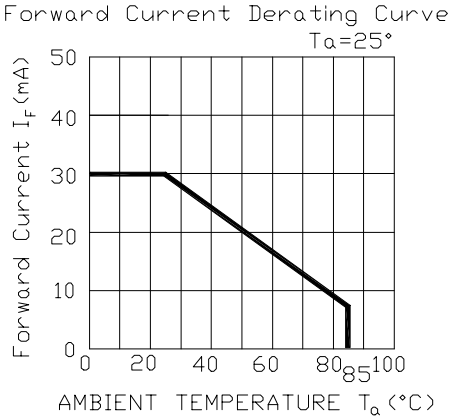
(UB)

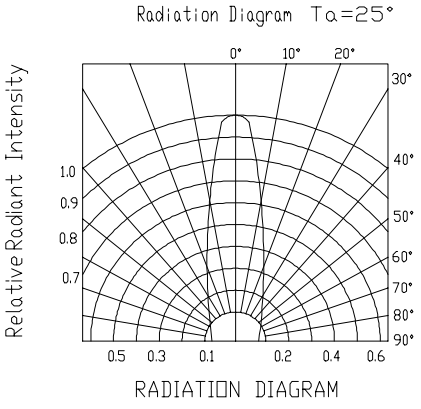












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383-2UBC/H2

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■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle		Ac/Re
1	Solder Heat	TEMP : 260℃ ± 5 ℃	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85℃ 30min ∫ 5 min L : -55℃ 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	50 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55℃	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25℃ I_F = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85℃ / 85% RH	1000 HRS	76 PCS	0/1